

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

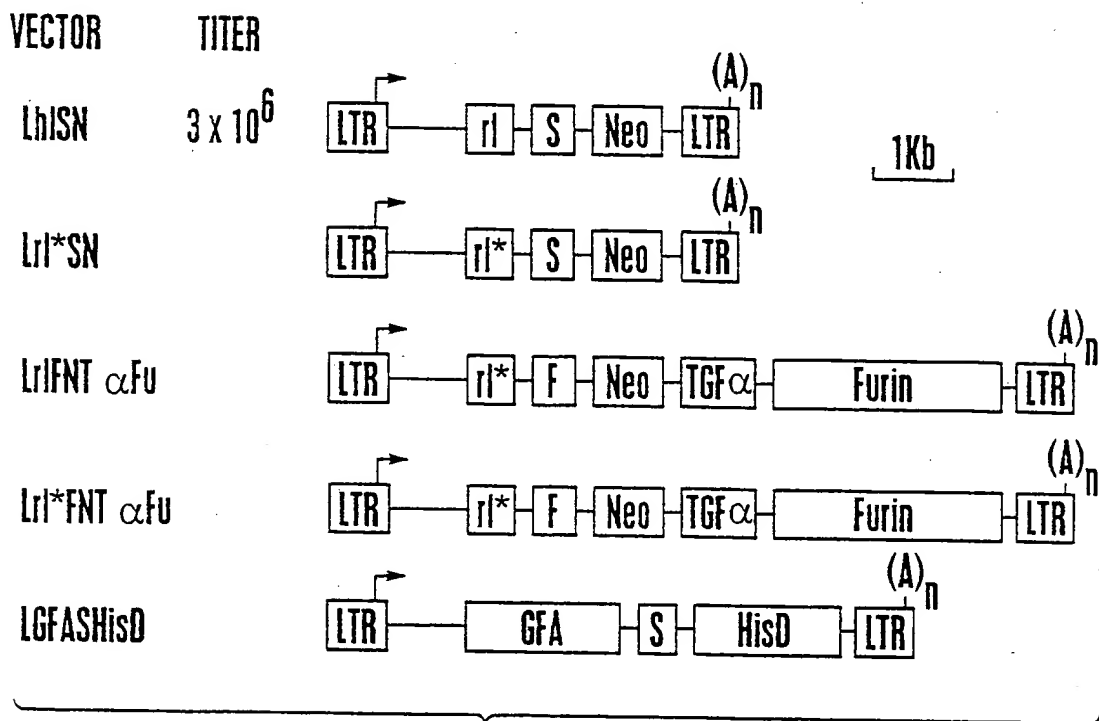


Fig. 1

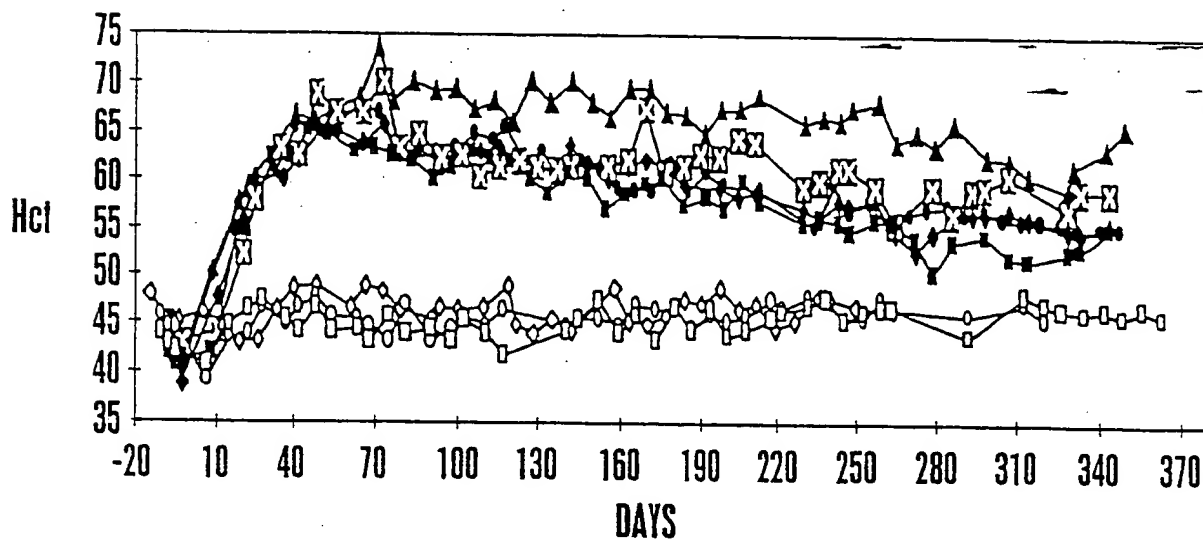


Fig. 2

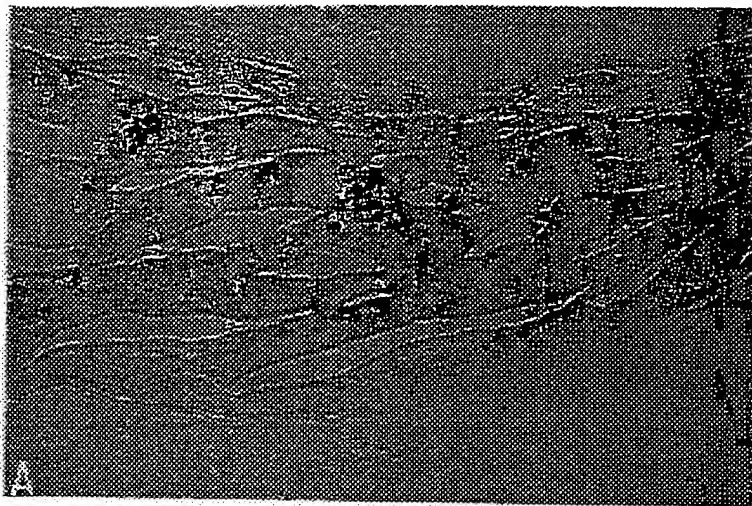
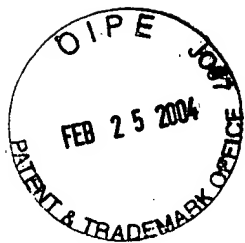


Fig. 3A

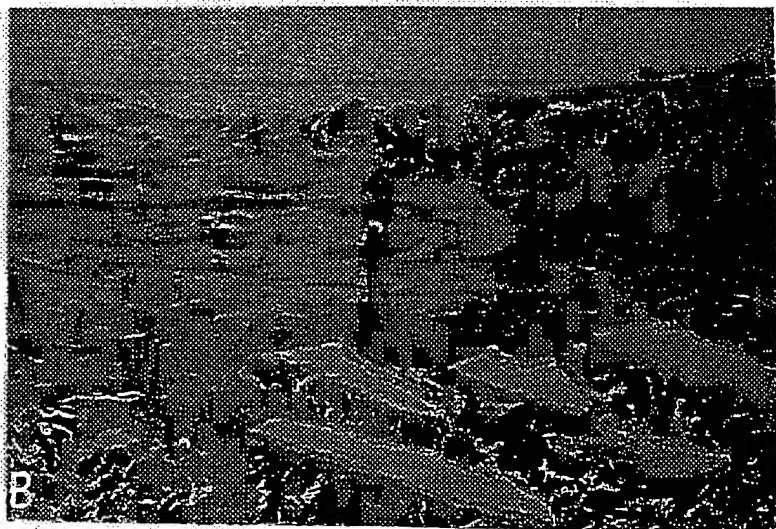


Fig. 3B



gctgcatcag aagaggccat caagcacatc actgtccttc tgcc atg gcc ctg tgg 56  
Met Ala Leu Trp  
1

atg cgc ctc ctg ccc ctg ctg gcg ctg ctg gcc ctc tgg gga cct gac 104  
Met Arg Leu Leu Pro Leu Leu Ala Leu Leu Ala Leu Trp Gly Pro Asp  
5 10 15 20

cca gcc gca gcc ttt gtg aac caa cac ctg tgc ggc tca cac ctg gtg 152  
Pro Ala Ala Ala Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val  
25 30 35

gaa gct ctc tac cta gtg tgc ggg gaa cga ggc ttc ttc tac aca ccc 200  
Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro  
40 45 50

aag acc cgc cgg gag gca gag gac ctg cag gtg ggg cag gtg gag ctg 248  
Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln Val Gly Gln Val Glu Leu  
55 60 65

ggc ggg ggc cct ggt gca ggc agc ctg cag ccc ttg gcc ctg gag ggg 296  
Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu Ala Leu Glu Gly  
70 75 80

tcc ctg cag aag cgt ggc att gtg gaa caa tgc tgt acc agc atc tgc 344  
Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys  
85 90 95 100

tcc ctc tac cag ctg gag aac tac tgc aac tag acgcagccc caggcagccc 397  
Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn  
105 110

cccacccgcc gcctcctgca ccgagagaga tggaataaag cccttgaacc agc 450

Fig. 4

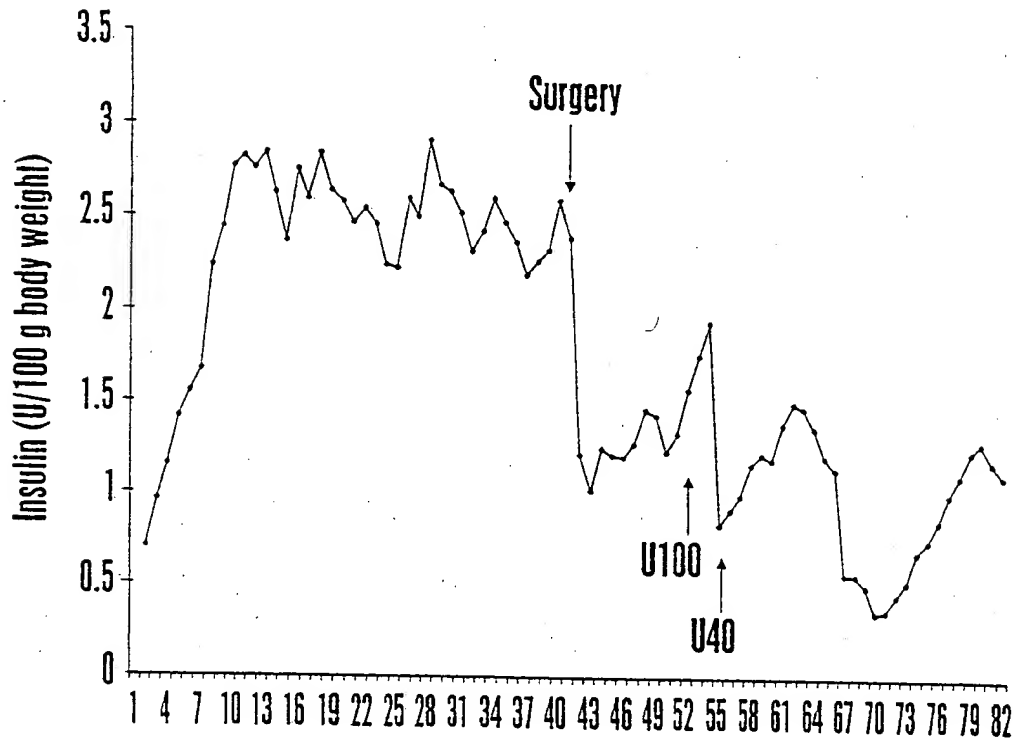


Fig. 5A

Fig. 5B

